

Title (en)  
ELECTRONIC DEVICE COMPRISING SPEAKER

Title (de)  
ELEKTRONISCHE VORRICHTUNG MIT LAUTSPRECHER

Title (fr)  
DISPOSITIF ÉLECTRONIQUE COMPRENANT UN HAUT-PARLEUR

Publication  
**EP 3697106 A1 20200819 (EN)**

Application  
**EP 18872249 A 20181030**

Priority  
• KR 20170144970 A 20171101  
• KR 2018013031 W 20181030

Abstract (en)  
An electronic device according to an embodiment may comprise: a speaker, an amplifier connected to the speaker through a first electrical path; and at least one processor electrically connected to the amplifier, wherein the at least one processor is configured to: provide a first audio signal set to a first volume level to the speaker via the amplifier; when the first volume level is less than a predetermined first value, output the first audio signal at the first volume level through the speaker; and when the first volume level is equal to or greater than the first value, control a volume level of the first audio signal on the basis of a temperature value of the speaker, which is estimated from the first audio signal.

IPC 8 full level  
**H04R 9/06** (2006.01); **H04M 1/03** (2006.01)

CPC (source: EP KR US)  
**H03F 1/52** (2013.01 - US); **H04M 1/035** (2013.01 - KR US); **H04M 1/6016** (2013.01 - EP); **H04R 3/007** (2013.01 - EP US);  
**H04R 9/02** (2013.01 - US); **H04R 9/06** (2013.01 - KR US); **H04R 29/001** (2013.01 - EP US); **H03F 2200/03** (2013.01 - US);  
**H04M 1/03** (2013.01 - EP); **H04R 2430/01** (2013.01 - EP KR US)

Cited by  
US11706565B2; WO2022182741A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3697106 A1 20200819**; **EP 3697106 A4 20201216**; KR 102388712 B1 20220421; KR 20190049298 A 20190509; US 11095988 B2 20210817;  
US 2020329315 A1 20201015; WO 2019088668 A1 20190509

DOCDB simple family (application)  
**EP 18872249 A 20181030**; KR 20170144970 A 20171101; KR 2018013031 W 20181030; US 201816759775 A 20181030